| Index of Claims | Application/Control No. | Applicant(s)/Patent unde<br>Reexamination |  |  |  |  |  |
|-----------------|-------------------------|---|--|--|--|--|--|
|                 | 09/399,678              | ABBEY, DUANE L.                           |  |  |  |  |  |
|                 | Examiner                | Art Unit                                  |  |  |  |  |  |
|                 | Jean B. Corrielus       | 2637                                      |  |  |  |  |  |

| / | Rejected | _ | (Through numeral)<br>Cancelled | N | Non-Elected  | A | Appeal   |  |
|---|----------|---|--------------------------------|---|--------------|---|----------|--|
| = | Allowed  | + | Restricted                     | ı | Interference | o | Objected |  |

| Cla          | aim          |          |                       | •       | Dat      | е               |  |   |      | Cla   | im       |          |         |          | Date            | -       |         |               |  | CI    | aim        |               |         |         | Dat     | e            | _                    |               |          |
|--------------|--------------|----------|-----------------------|---------|----------|-----------------|--|---|------|---|----------|----------|---------|----------|-----------------|---------|---------|---------------|--|-------|------------|---------------|---------|---------|---------|--------------|----------------------|---------------|----------|
|              | ) H          |          |                       |         |          |                 |  |   |      |   | _        |          |         |          |                 |         |         |               |  |       | <u></u>    |               | - [     |         |         |              |                      | .             |          |
| Final        | Original     | 2/17/06  |                       |         |          |                 |  | 1 1   |      | Final   | Original |          | ł       |          |                 | - 1     |         |               |  | Final | Original   | l             | Ì       |         |         |              |                      |               |          |
| iĒ           | ا ب <u>چ</u> | 둞        |                       |         |          |                 |  |   |      | iĒ  | 꽃.       |          | - 1     |          | 1 1             |         |         |               |  | ίĒ    | , ji       |               |         |         |         |              |                      |               |          |
|              | $\Box$       |          |                       |         |          |                 |  | Ш   |      |   |          |          |         | ┸        |                 | $\bot$  |         |               |  |       |            |               | $\perp$ | $\perp$ | ⊥_      | <u> </u>     | Ш                    | $ \bot $      | _        |
|              | 1            | N        |                       |         |          |                 |  |   |      |   | 51       |          |         | L        |                 |         | ┸       |               |  |       | 101        |               | $\perp$ | $\perp$ | $\perp$ |              |                      |               | _        |
|              | 2            | N        |                       | ┸       |          | Ш               |  | Ш   |      |   | 52       |          |         |          |                 |         | $\perp$ | Ш             |  |       | 102        |               | _ _     | 丄       |         | L            |                      |               |          |
|              | 3            | N        | $\sqcup$              |         |          |                 |  | $\perp$   |      |   | 53       |          |         | 丄        | Ш               | $\perp$ | $\perp$ | Ш             |  |       | 103        | $\perp$       | $\perp$ | $\perp$ |         | L            | Ш                    | _             | _        |
|              | 4            | N        |                       |         |          | Ш               |  | Ш   |      |   | 54       |          |         |          | Ш               |         | ┸       | Ш             |  |       | 104        |               | $\perp$ | 1       | 1       | _            |                      | _             | _        |
|              | 5            | N        | $\sqcup \bot$         |         | $\perp$  | Ш               |  | Ш   |      |   | 55       |          |         | ┸        |                 |         | $\perp$ | Ш             |  |       | 105        |               | _ _     |         | 4       | <u> </u>     |                      |               | _        |
|              | 6            | N        |                       |         |          | Ш               |  | ш   |      |   | 56       |          |         | ┶        | 1               |         |         | Ш             |  |       | 106        |               | _       | ┸       | _       | _            |                      | $\dashv$      | _        |
|              | 7            | N        |                       | ┸       | ļ        |                 |  | $\perp$   |      |   | 57       |          |         | ┸        | 11              | _       |         | 1             |  |       | 107        | $\perp$       | 4       | $\bot$  | _       | _            | Ц                    | _             | _        |
|              | 8            | N        | Ш                     |         |          | Ш               |  |   |      |   | 58       |          |         | ┸        |                 |         |         | Ш             |  |       | 108        | $\rightarrow$ |         | $\perp$ | ┷       | <u> </u>     | $\sqcup$             | _             | _        |
|              | 9            | N        |                       |         | ᆚ_       | $\perp$         | ot   | ш   |      |   | 59       |          |         | ↓_       | Ш               |         |         |               |  |       | 109        |               | _       | ┸       |         | L_           |                      | $\dashv$      | _        |
| <u></u>      | 10           | N        | <b> </b>  _           |         |          | Ш               | $oxed{oxed}$                                     | $\perp$   |      |   | 60       |          |         | _        | Ш               | $\perp$ | $\perp$ | Ш             |  |       | 110        | $\sqcup$      |         | $\bot$  | 1       | _            | Ш                    | $\dashv$      | $\sqcup$ |
|              | 11           | N        |                       |         |          | Ш               |  | $\perp \!\!\! \perp \!\!\! \perp$                                   |      | $ldsymbol{ld}}}}}}}}}$ | 61       |          | $\perp$ | 1_       | Ш               |         | $\perp$ | Ш             |  |       | 111        | $\perp$       | $\perp$ | $\perp$ | $\perp$ | $oxed{oxed}$ | $\sqcup$             | _             | _        |
| L            | 12           | N        | $\sqcup \!\!\! \perp$ | $\perp$ |          | Ш               |  | Ш   |      |   | 62       | $\perp$  | $\perp$ | $\perp$  | $\perp \perp$   | $\perp$ |         | Ш             |  |       | 112        | $\sqcup$      | $\perp$ | $\bot$  | 1       | ┞.           | Ш                    | $\dashv$      | $\Box$   |
|              | 13           | √        | $\sqcup \bot$         | $\perp$ | $\perp$  | $\sqcup$        |  | $\perp \! \! \perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ |      | <b> </b>  | 63       | $\perp$  | $\perp$ | $\perp$  | Ш               | $\perp$ | 4_      | Ш             |  |       | 113        | $\sqcup$      | $\perp$ | 4       | $\perp$ | L.           | Ш                    |               | _        |
|              | 14           | √        | $\sqcup \!\!\! \perp$ | $\perp$ | $\perp$  | Ш               | $\sqcup \!\!\! \perp$                            | $oldsymbol{\perp}$  |      | $ldsymbol{\sqcup}$  | 64       |          |         | 1_       | Ш               |         | 4       | Ш             |  |       | 114        |               | $\perp$ | $\perp$ | $\perp$ | _            | Ш                    |               |          |
| <u></u>      | 15           | 1        | $\sqcup \bot$         | $\bot$  | 1_       | Ш               | $\sqcup \bot$                                    | $\bot$  |      |   | 65       |          | _ _     | 1        | Ш               | $\perp$ |         | Ш             |  |       | 115        |               | $\perp$ | 1       | 1.      | <u> </u>     | Ш                    | _             | _        |
|              | 16           | 1        | $\sqcup \!\!\! \perp$ | $\perp$ | _        | Ш               |  | $\perp \!\!\! \perp \!\!\! \perp$                                   |      | $\sqcup \sqcup$   | 66       |          | $\perp$ | 1        | $\sqcup$        | $\perp$ |         | Ш             |  |       | 116        | $\sqcup \bot$ | _ _     |         | 4_      | <u> </u>     | Ш                    |               | _        |
| <u></u>      | 17           | 0        | $\sqcup \bot$         | $\perp$ | $\perp$  | Ш               | $\sqcup \bot$                                    | 44  |      | $\sqcup \sqcup$   | 67       |          | $\perp$ | 1        | $\sqcup$        | $\bot$  |         | Ш             |  |       | 117        | $\sqcup$      | _       | $\bot$  | 1       | <b>L</b>     | $\sqcup$             | _             |          |
| <u></u>      | 18           | ٥        | $\sqcup \bot$         | ┸       |          | Ш               | $oxed{oxed}$                                     | $\perp$   |      | <b> </b>  | 68       |          |         | _        | $\perp$         |         |         |               |  |       | 118        | $\sqcup$      | $\perp$ | 4       | 4       | ↓_           |                      |               | _        |
|              | 19           | 0        | oxdot                 | $\perp$ | 1        | Ш               | $oxed{oxed}$                                     | $\bot$  |      | $\sqcup$  | 69       |          | $\perp$ | ↓_       | Ш               |         | 1       | $\perp \perp$ |  |       | 119        |               | $\perp$ | $\perp$ | $\perp$ | _            | Щ                    | _             | _        |
|              | 20           | 1        | oxdot                 | _       | _        | Ш               | ot   | $\perp \! \! \perp$   |      | $\sqcup$  | 70       |          | _       | 1        | Ш               | $\perp$ | $\bot$  | Ш             |  |       | 120        | $\sqcup$      | $\perp$ | $\perp$ | $\perp$ | _            | Ш                    | ightharpoonup |          |
|              | 21           | 0        | $\sqcup \!\!\! \perp$ | $\perp$ | $\bot$   | Ш               | Щ  | 44  |      | $\sqcup$  | 71       | $\perp$  |         | 1        | $\sqcup$        |         |         | Ш             |  |       | 121        |               | _       | 1       | $\perp$ | _            | Ш                    |               | _        |
| L            | 22           | 0        |                       |         |          | Ш               | $\Box$   | Ш   |      |   | 72       |          |         | 1        | $\sqcup$        |         |         | Ш             |  |       | 122        |               | $\perp$ | 1       | $\perp$ | <u> </u>     | Ш                    |               |          |
|              | 23           | 0        | $\sqcup \!\!\! \perp$ | $\perp$ |          | $\sqcup$        | Щ_   | ш   |      | $\sqcup$  | 73       |          | _       | 1        | $\sqcup$        | $\perp$ | _       | Ш             |  |       | 123        | $\sqcup$      | _       | 4       | 1       | 1_           | $\sqcup$             | _             | _        |
|              | 24           | 0        | ⊢-                    |         |          | $\sqcup$        |  | 44  |      |   | 74       | _        | _ _     | $\perp$  | $\sqcup$        | $\perp$ |         | Ш             |  |       | 124        | ot            | $\perp$ | $\bot$  | 4       | <u> </u>     |                      | _             | _        |
|              | 25           | 1        | oxdot                 | _       |          | $\sqcup$        | $oxed{oxed}$                                     | $\perp \! \perp \! \mid$  |      |   | 75       |          |         | 1        | $\sqcup$        | _       |         | Ш             |  |       | 125        |               | $\bot$  | $\bot$  | $\bot$  | <u> </u>     | Щ                    | _             |          |
|              | 26           | N        | $\sqcup \bot$         | 4       | 1        | $\sqcup$        | $\sqcup \! \! \! \! \! \perp$                    | $\perp \perp \mid$  |      | $\vdash$  | 76       | $\perp$  | _       | ↓_       | $\vdash$        | _       |         | $\sqcup$      |  |       | 126        | $\sqcup$      | $\perp$ | $\perp$ | $\perp$ | 1            | $\sqcup$             | _             | _        |
|              | 27           | <u> </u> | $\sqcup$              | $\perp$ | $\perp$  | $\sqcup$        | <u> </u>   | 44  |      | <b></b>   | 77       |          | 4       | 1        | $\sqcup$        | $\perp$ |         | $\sqcup$      |  |       | 127        |               | $\bot$  | 4       | 4_      | ↓            | Щ                    | _             | _        |
|              | 28           | <u> </u> | $\sqcup \bot$         | $\perp$ | $\perp$  | $\sqcup$        | <b></b>  | $\bot$  |      | $\vdash$  | 78       | $\perp$  | $\perp$ | $\perp$  | $\sqcup$        | $\perp$ | $\perp$ | Ш             |  |       | 128        | $\dashv$      | $\bot$  | $\bot$  | 4       | <del> </del> | $\sqcup$             |               | _        |
|              | 29           | N        |                       | 4       | -        | $\sqcup$        | $\vdash$   | $\perp \perp$   |      | $\vdash$  | 79       | $\perp$  | $\perp$ | _        | $\sqcup$        | $\perp$ |         | Н             |  |       | 129        |               | _       | 4-      | 4       | <del> </del> | $\vdash \vdash$      |               |          |
|              | 30           | N        | $\vdash$              | $\bot$  | <u> </u> | $\sqcup$        | $\vdash \vdash$                                  |   |      | $\longmapsto$   | 80       | $\perp$  | _       | +        | $\vdash$        | $\perp$ | 4-      | Н             |  |       | 130        |               | -       | 4       | $\bot$  | <u> </u>     |                      |               | _        |
|              | 31           | N        | $\vdash \vdash$       | $\bot$  | +        | $\sqcup$        | $\vdash \vdash$                                  |   |      |   | 81       | $\dashv$ | +       | ↓        | $\vdash$        |         | ┿       | $\vdash$      |  |       | 131        | $\vdash$      | +       | $\bot$  | +-      | <b>⊢</b> -   | $\sqcup$             | $\dashv$      | _        |
|              | 32           | N        | $\vdash$              | +-      | +-       | ╁╌┤             |  | +   |      |   | 82       |          | _       | +        | $\vdash \vdash$ | -       | +       | $\vdash$      |  |       | 132        | $\vdash$      | +       |         | +       |              | $\vdash \vdash$      | $\dashv$      | $\dashv$ |
|              | 33           | ١        | $\vdash$              | +-      | +-       | $\square$       | $\vdash \vdash$                                  | +   |      |   | 83       |          | +       | ╀        |                 | -       | +       | $\vdash$      |  |       | 133        | $\vdash$      | +       | +-      | +       | $\vdash$     | $\vdash \vdash$      | $\dashv$      | _        |
| <u> </u>     | 34           | N        | -                     | 4-      | +-       |                 | $\vdash \vdash$                                  | +   |      | $\vdash$  | 84       | +        | +       | +        | $\vdash$        | +       | +       | Н             |  |       | 134        |               |         | +       | +       | ⊬            | $\vdash \vdash$      | $\dashv$      |          |
|              | 35           | ├-       | -                     | +       | +        | Н               | $\vdash$   | +   |      | $\vdash$  | 85       | $\dashv$ | +       | +        | $\vdash$        | +       | +       | $\vdash$      |  |       | 135        | $\dashv$      | +       | +       | +-      | ├            | $\vdash$             |               | -        |
|              | 36           | -        | $\vdash$              | +       | -        | Н               | $\vdash$   | +   |      |   | 86       | -        | +-      | +        | ╁┼              | -       |         | $\vdash$      |  |       | 136        | $\dashv$      | +       | +       | +       | 1            | $\vdash \vdash$      | $\dashv$      |          |
|              | 37           | ⊢-       |                       | +       | +        | ╁╌┤             | -  | 4-4   |      |   | 87       | $\dashv$ |         | +        | 1-1             |         |         | $\vdash$      |  |       | 137        | $\dashv$      | +       | +       | +       | ₩            | $\vdash \vdash$      | $\dashv$      |          |
| <u> </u>     | 38           | ├        | $\vdash$              | +       | +        | $\vdash \vdash$ |  | ╁┵┤   |      | $\vdash \rightarrow$  | 88       | -        | +       | +        | ╁╌┤             | +       | +       | Н             |  |       | 138        | $\dashv$      | +       | +       | +       | ₩            | $\vdash \vdash$      | $\dashv$      | $\dashv$ |
| <u></u>      | 39           | ⊢-       | $\vdash \vdash$       | +       | +        | $\vdash \vdash$ | <del>                                     </del> | ┿┥  |      |   | 89       | $\dashv$ | +       | +-       | ╁╌┤             | +       | +       | Н             |  |       | 139        | -             | +       | +       | +       | ⊢            | $\vdash \vdash$      | $\dashv$      | $\dashv$ |
| <u> </u>     | 40           | ├        | $\vdash \vdash$       | +       | +        | $\vdash \vdash$ |  | 4-4   |      |   | 90       | $\dashv$ |         | +-       | ╁╌┤             | +       | +       | Н             |  |       | 140        |               | +       | +       | +       | ₩            | $\vdash \vdash$      | $\dashv$      | $\dashv$ |
| <u> </u>     | 41           | <u> </u> | $\vdash$              | +       | +-       | ╁╌┤             | -  | +   |      |   | 91<br>92 |          | +-      | ┼-       | ╁╌┼             | +       | +-      | Н             |  |       | 141        | +             | +       | +       | +       | 1            | $\vdash \vdash$      | $\dashv$      |          |
|              |              | $\vdash$ | $\vdash$              | +       | +-       | $\vdash$        |  | +   |      |   |          |          | +       | ╁        | ┥               | +       |         | Н             |  |       | 142        | $\dashv$      | +       | ╫       | +       | -            | $\vdash$             | $\dashv$      | $\dashv$ |
| -            | 43           | H        | -                     | +       | +-       | $\vdash \vdash$ | -  | +   |      | $\vdash \vdash \vdash$  | 93       |          | +-      | +        | $\vdash$        | +       | -       | ╁┤            |  |       | 143        | $\dashv$      | +       | ╁       | +       | $\vdash$     | $\vdash \vdash$      |               | $\dashv$ |
| <del> </del> | 44<br>45     | <u> </u> | $\vdash \vdash$       | +       | +        | $\vdash$        | -  | +   |      |   | 94<br>95 | +        | +       | +        | $\vdash$        | +       | +       | $\vdash$      |  |       | 144<br>145 | $\dashv$      | +       | +       | +       | ╁            | ${oldsymbol{dash}}$  | -+            | $\dashv$ |
| <u> </u>     | 46           | <u> </u> | $\vdash \vdash$       | +       | +        | ╁┼              |  | +-{   |      |   | 96       | +        | +       | ╀        | ╁┼              | +       | +       | $\vdash$      |  |       | 146        | +             | +       | +       | +-      | $\vdash$     | $\vdash$             | $\dashv$      | $\dashv$ |
| <b></b>      |              |          | $\vdash \vdash$       | +       | +        | ⊢∤              | +  | +   |      |   |          | -+       | +-      | +-       | ╁╌┼             | +       | +       | $\vdash$      |  |       | 140        | $\dashv$      | +       | +       |         | $\vdash$     | $\vdash$             | $\dashv$      | $\dashv$ |
| <u> </u>     | 47           | <u> </u> | $\vdash$              | +       | +        | $\vdash \vdash$ | +  | +   |      | $\vdash$  | 97       | +        | +       | ╀        | ╁               | +       | +       | $\vdash$      |  |       | 147        | $\dashv$      | +       | +-      | +       | <del> </del> | ${oldsymbol{arphi}}$ | $\dashv$      | $\dashv$ |
| <b>-</b>     | 48           | $\vdash$ | $\vdash \vdash$       | +-      | +        |                 |  | +   |      |   | 98       | -        | +-      | +        | $\vdash$        | -       | +       | Н             |  |       | 148        | +             | +       | +       | +       | -            | $\vdash$             | $\dashv$      | $\dashv$ |
| <u> </u>     | 49           | _        | $\vdash$              | +       | +        | Н               | +  | +   |      |   | 99       | +        | +       | +        | $\vdash$        | +       | +       | <del> </del>  |  |       | 149        | -             |         |         |         | -            | $\dashv$             |               | $\dashv$ |
| Ц            | 50           |          |                       |         |          | Ш               | L_   | الله  | :::: |   | 100      | $\perp$  |         | <u> </u> | ш               |         |         | ш             |  |       | 150        |               |         |         | 丄       |              | Ш                    | ᆚ             |          |